

Figure S1

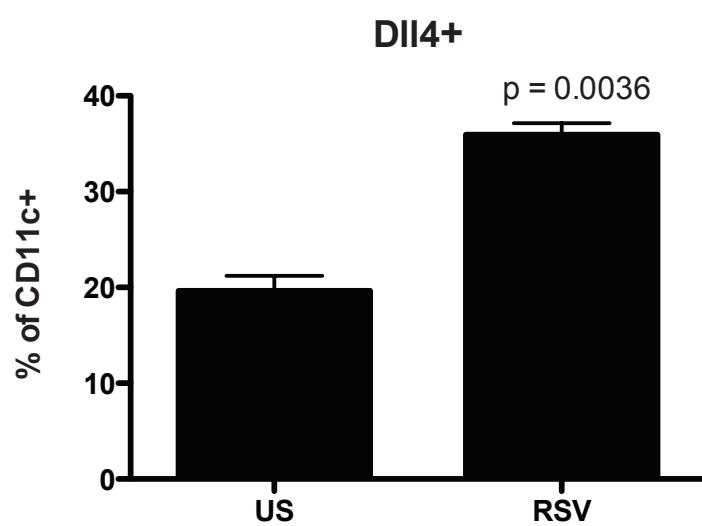
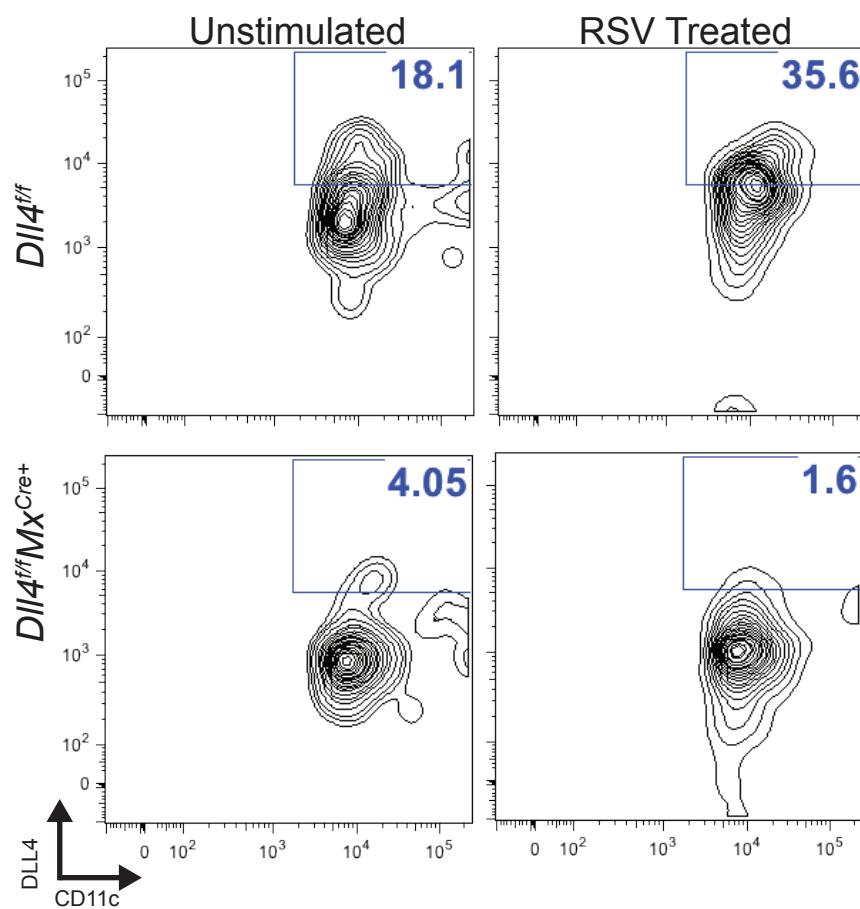


Figure S2

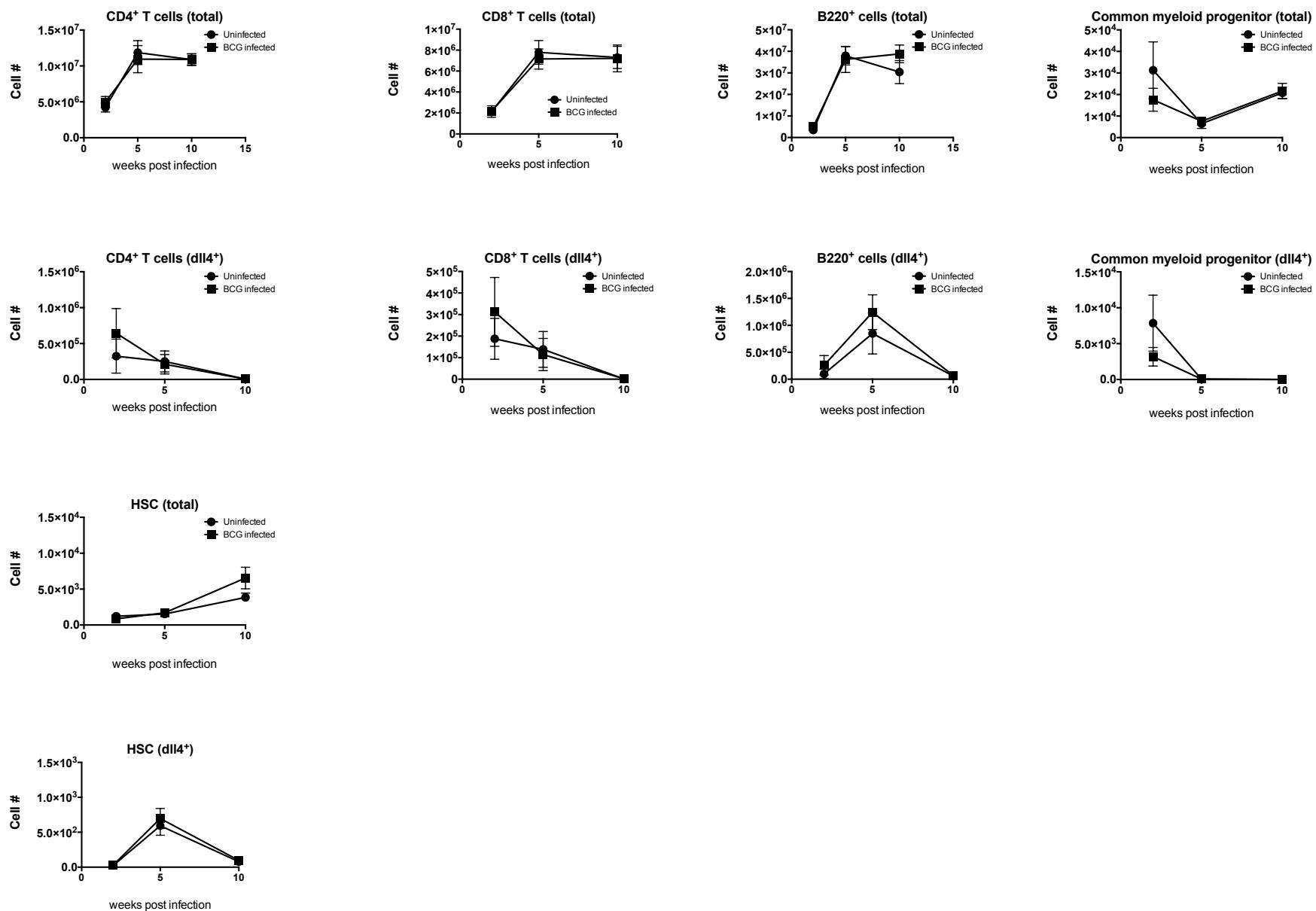


Figure S3

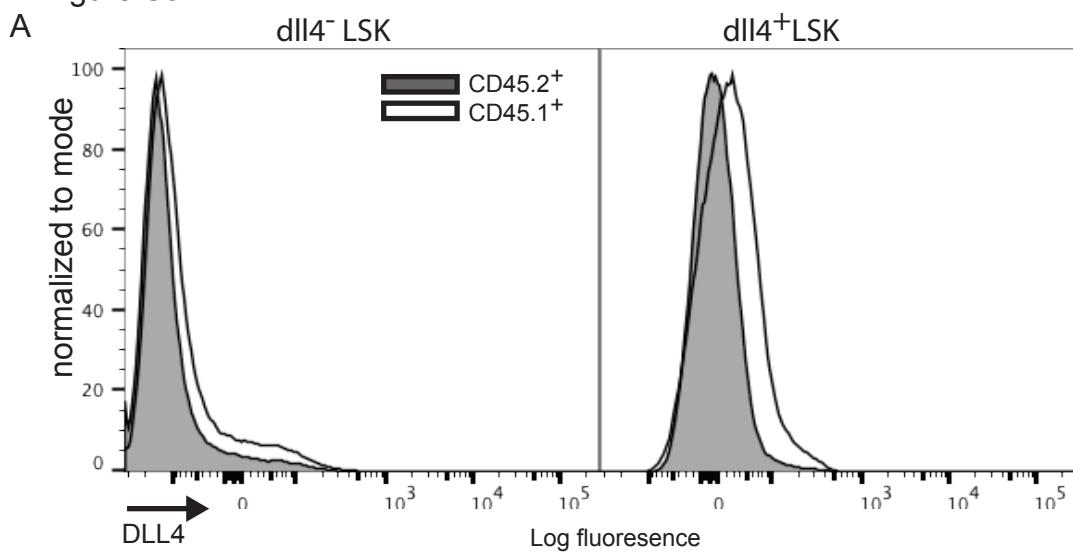
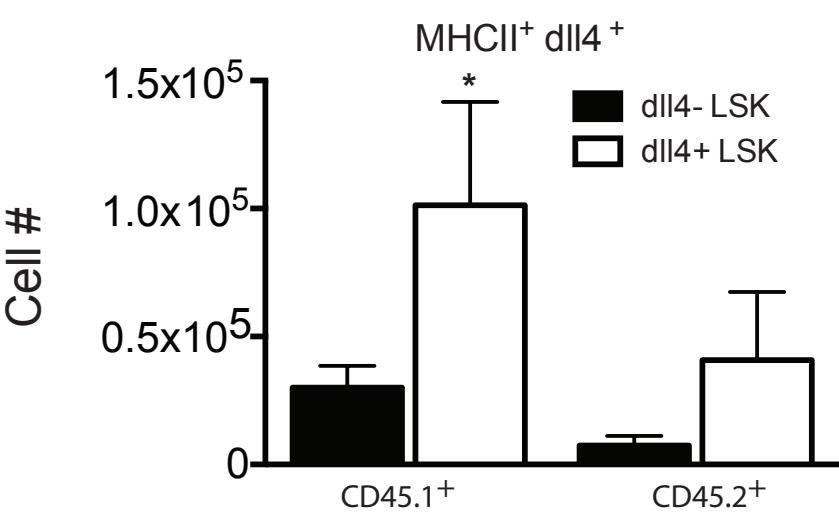
**B**

Table S1: Correlation of CD4 T cell Cytokine Response and Dll4 expression on monocytes^a

	Dll4	Ag85A (IL-2)	CFP-10 (IL-2)	ESAT-6 (IL-2)	PPD (IL-2)	SEB (IL-2)	TB10.4 (IL-2)	Ag85A (IFNγ)	CFP-10 (IFNγ)	ESAT-6 (IFNγ)	PPD (IFNγ)	SEB (IFNγ)	TB10.4 (IFNγ)	Ag85A (TNFα)	CFP-10 (TNFα)	ESAT-6 (TNFα)	PPD (TNFα)	SEB (TNFα)	TB10.4 (TNFα)	
Correlation	Dll4	1.000	.288	-.123	.430	.676	.110	.304	.341	-.103	.501	.698	.099	.318	-.016	-.119	.461	.673	.016	.296
	Ag85A(IL2)	.288	1.000	.025	.451	.680	.009	.348	.877	.075	.501	.628	-.021	.338	.801	.059	.462	.630	-.158	.307
	CFP10(IL2)	-.123	.025	1.000	.155	-.131	.338	-.214	.016	.986	.103	-.178	.359	-.255	.035	.992	.101	-.170	.260	-.259
	ESAT6(IL2)	.430	.451	.155	1.000	.704	.492	.761	.195	.144	.972	.590	.335	.688	.089	.146	.962	.627	.309	.674
	PPD(IL2)	.676	.680	-.131	.704	1.000	.234	.620	.639	-.092	.791	.974	.190	.591	.286	-.105	.756	.978	.079	.565
	SEB(IL2)	.110	.009	.338	.492	.234	1.000	.626	-.061	.311	.513	.181	.964	.628	-.136	.337	.598	.232	.934	.642
	TB104(IL2)	.304	.348	-.214	.761	.620	.626	1.000	.105	-.223	.780	.567	.460	.975	.009	-.215	.823	.608	.448	.966
	Ag85A(IFNg)	.341	.877	.016	.195	.639	-.061	.105	1.000	.111	.325	.648	.020	.161	.805	.085	.289	.641	-.113	.142
	CFP10(IFNg)	-.103	.075	.986	.144	-.092	.311	-.223	.111	1.000	.116	-.125	.345	-.250	.138	.998	.113	-.118	.241	-.256
	ESAT6(IFNg)	.501	.501	.103	.972	.791	.513	.780	.325	.116	1.000	.703	.380	.745	.170	.116	.993	.741	.349	.735
	PPD(IFNg)	.698	.628	-.178	.590	.974	.181	.567	.648	-.125	.703	1.000	.158	.568	.278	-.142	.668	.997	.046	.543
	SEB(IFNg)	.099	-.021	.359	.335	.190	.964	.460	.020	.345	.380	.158	1.000	.483	-.113	.368	.466	.204	.963	.502
	TB104(IFNg)	.318	.338	-.255	.688	.591	.628	.975	.161	-.250	.745	.568	.483	1.000	.059	-.243	.794	.612	.483	.998
	Ag85A(TNF)	-.016	.801	.035	.089	.286	-.136	.009	.805	.138	.170	.278	-.113	.059	1.000	.115	.149	.280	-.195	.041
	CFP10(TNF)	-.119	.059	.992	.146	-.105	.337	-.215	.085	.998	.116	-.142	.368	-.243	.115	1.000	.115	-.133	.265	-.247
	ESAT6(TNF)	.461	.462	.101	.962	.756	.598	.823	.289	.113	.993	.668	.466	.794	.149	.115	1.000	.711	.442	.787
	PPD(TNF)	.673	.630	-.170	.627	.978	.232	.608	.641	-.118	.741	.997	.204	.612	.280	-.133	.711	1.000	.102	.590
	SEB(TNF)	.016	-.158	.260	.309	.079	.934	.448	-.113	.241	.349	.046	.963	.483	-.195	.265	.442	.102	1.000	.516
	TB104(TNF)	.296	.307	-.259	.674	.565	.642	.966	.142	-.256	.735	.543	.502	.998	.041	-.247	.787	.590	.516	1.000

a. This matrix is not positive definite.

Table S2: Component Correlation Matrix

Component	1	2
1	1.000	.009
2	.009	1.000

Extraction Method: Principal Component

Table S3: Correlation of CD8 T cell Cytokine Response and DiI4 expression on monocytes

Correlation	diI4	CD8 Ag85A (IL2)	CD8 CFP10 (IL2)	CD8 ESAT6 (IL2)	CD8 PPD (IL2)	CD8 SEB (IL2)	CD8 TB10-4 (IL2)	CD8 Ag85A (IFNg)	CD8 ESAT6 (IFNg)	CD8 PPD (IFNg)	CD8 SEB (IFNg)	CD8 TB10-4 (IFNg)	CD8 Ag85A (TNF)	CD8 ESAT6 (TNF)	CD8 PPD (TNF)	CD8 SEB (TNF)	CD8 TB10-4 (TNF)			
diI4	1	-0.279	-0.195	0.146	0.104	0.191	-0.47	0.101	0.077	0.358	-0.322	0.158	-0.193	0.031	0.216	0.406	-0.078	0.094	-0.033	
CD8Ag85AIL2	-0.279	1	0.511	0.206	0.402	0.345	0.231	0.56	0.581	-0.485	-0.036	0.426	-0.042	0.347	0.683	-0.314	0.043	0.519	-0.014	
CD8CFP10IL2	-0.195	0.511	1	0.388	0.579	-0.223	0.199	0.278	0.124	-0.201	0.272	-0.028	-0.239	-0.085	0.316	-0.19	-0.029	0.004	-0.062	
CD8ESAT6IL2	0.146	0.206	0.388	1	0.581	-0.15	-0.056	-0.22	-0.21	0.444	-0.343	-0.105	-0.28	-0.275	-0.107	0.336	-0.142	-0.118	-0.203	
CD8PPDIL2	0.104	0.402	0.579	0.581	1	0.071	0.194	0.143	0.702	0.124	-0.137	0.1	-0.235	-0.418	0.312	0.021	-0.137	0.12	-0.135	
CD8SEBIL2	0.191	0.345	-0.223	-0.15	0.071	1	-0.173	0.241	0.553	-0.124	-0.18	0.78	-0.072	0.062	0.537	-0.164	-0.144	0.772	-0.168	
CD8TB10IL2	-0.47	0.231	0.199	-0.056	0.194	-0.173	1	-0.096	-0.047	-0.062	-0.007	-0.279	0.19	0.123	-0.211	-0.428	-0.294	-0.273	-0.187	
CD8Ag85AIFNg	0.101	0.56	0.278	-0.22	0.143	0.241	-0.096	1	0.429	-0.414	0.039	0.276	-0.202	0.545	0.79	-0.136	0.12	0.34	0.037	
CD8CFP10IFNg	0.077	0.581	0.124	-0.21	0.102	0.553	-0.047	0.429	1	-0.332	0.146	0.879	-0.033	0.144	0.824	-0.332	-0.113	0.888	-0.152	
CD8ESAT6IFNg	0.358	-0.485	-0.201	0.444	0.124	-0.124	-0.062	-0.414	-0.332	1	-0.071	-0.181	-0.057	-0.311	-0.332	0.665	-0.094	-0.23	-0.128	
CD8PPDIFNg	-0.322	-0.038	0.247	-0.343	-0.18	-0.01	0.079	0.076	0.146	-0.071	1	0.145	0.145	0.558	0.123	0.059	0.234	0.641	0.189	0.582
CD8SEBIFNg	0.165	0.03	-0.288	-0.055	0.1	0.08	-0.279	0.076	0.039	-0.181	0.145	1	0.001	0.005	0.729	-0.371	-0.048	0.656	-0.1	
CD8TB10IFNg	-0.193	0.042	0.239	-0.28	0.236	0.072	-0.19	0.202	0.033	-0.057	0.558	0.001	0.314	-0.144	0.376	0.741	0.059	0.833		
CD8Ag85ATNF	-0.03	0.347	-0.085	-0.275	-0.418	0.062	0.123	0.545	0.144	-0.311	0.123	0.018	0.314	1	0.257	0.07	0.363	0.073	0.321	
CD8CFP10TNF	0.216	0.683	0.316	-0.107	0.312	0.537	-0.211	0.79	0.824	-0.332	0.109	0.729	-0.144	0.257	1	-0.128	0.07	0.78	0.003	
CD8ESAT6TNF	0.406	-0.314	-0.19	0.336	0.021	-0.164	-0.428	-0.136	-0.332	0.665	0.234	-0.137	0.376	0.07	-0.128	1	0.622	-0.105	0.565	
CD8PPDTNF	-0.078	0.043	-0.029	-0.142	-0.137	-0.144	-0.294	0.32	-0.113	-0.099	0.641	-0.028	0.741	0.363	0.07	0.622	1	0.077	0.959	
CD8SEBTNF	0.094	0.519	0.004	-0.118	0.12	0.772	-0.273	0.34	0.888	-0.23	0.189	0.986	0.059	0.073	0.78	-0.105	0.077	1	-0.003	
CD8TB10TNF	-0.033	-0.014	-0.062	-0.203	-0.135	-0.168	-0.187	0.037	-0.152	-0.128	0.582	-0.1	0.836	0.321	0.003	0.565	0.959	-0.003	1	

Supporting figure information:

Figure S1: Anti-dll4 antibody is specific for DLL4. A) Expression of *dll4* on murine bone-marrow derived DCs grown from *Mx*^{Cre}*dll4*^{ff} mice that had been previously depleted of *dll4* by in vivo injection of poly IC. Cells were stimulated for 48 hours with Respiratory Syncytial Virus to induce *dll4* expression. Student's T test was performed to determine significance.

Figure S2: Analysis of DLL4 expression on lymphocytes, hematopoietic stem cells and common myeloid progenitor cells during murine BCG infection. There were no significant differences observed in the total number or the number of *dll4*⁺ cells for the indicated populations. Two-way ANOVA indicated time was a significant factor that influenced the number of cells in each subset. N=5 mice per groups, experiment was repeated 2x.

Figure S3: DLL4 expression in chimeric mice is derived predominantly from donor cells. A) Flow cytometry histograms of *dll4* expression in residual CD45.2⁺ recipient cells and CD45.1⁺ donor cells at 4 weeks post engraftment in mice receiving either DLL4⁺ LSK cells or *dll4*⁻ LSK cells isolated from mice at 5 weeks post BCG infection. B) Quantitation of A. One-way ANOVA indicated that the injection of DLL4⁺ CD45.1⁺ LSK cells was a significant factor in determining *Dll4* expression on CD45.1⁺ splenocytes at 4 weeks post engraftment. p=0.0016

Figure S4: DLL4 expression on monocytes is correlated with IL-2 and TNF α production from T cells during PPD stimulation. A-B) Linear regression analysis to determine the correlation between cytokine production for IL-2 and TNF α and

expression of DLL4 on human monocytes. Cytokine production was determined by intracellular cytokine staining after stimulation with PPD, ESAT-6 and SEB.

Table S1: Correlation matrix of CD4⁺ T cell cytokine production and DLL4 expression on CD14⁺ monocytes.

Table S2: Component correlation matrix from PCA analysis demonstrating that the resulting components from Table 1 are not related to each other.

Table S3: Correlation matrix for CD8⁺ T cell cytokine secretion and DLL4 expression on monocytes.